

Appn. No. 09/599,042

Docket No. 22-0127

Amendments to the Claims

1-11 (Cancelled).

12 (Currently Amended): A power gating module for power gating a downlink transmitter that is configured to transmit a downlink beam frame signal, the power gating module comprising:

a power amplifier for amplifying transmission frame signals including at least a first header signal, a first payload signal, a second header signal, and a second payload signal; and

a power gating circuit coupled to the power amplifier, the power gating circuit including a power gate input and responsive to a power gating signal to remove power from the downlink transmitter during transmission of at least one of the first header signal and first payload signal in combination, and the second header signal and second payload signal in combination before amplification by the power amplifier;

~~The power gating module of claim 11, wherein the power gating circuit comprises a digital modulator with a gating control input connected to the power gate input and a bandpass filter with a predetermined passband coupled to a modulator output of the digital modulator.~~

13 (Original): The power gating module of claim 12, wherein the digital modulator outputs a modulated signal with frequency content outside the passband in response to the power gating signal.

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14 (Original): The power gating module of claim 13, wherein the frequency content is substantially DC frequency content.

15 (Original): The power gating module of claim 12, wherein the digital modulator is a QPSK modulator and further comprising an Inphase gate and a Quadrature gate coupled to the digital modulator.

16 (Original): The power gating module of claim 15, wherein the Inphase gate and the Quadrature gate are held in a known output state in response to the power gating signal.

17-19 (Cancelled).

20 (Currently Amended): A power gating module for power gating a downlink transmitter that is configured to transmit a downlink beam frame signal, the power gating module comprising:

a power amplifier for amplifying transmission frame signals including at least a first header signal, a first payload signal, a second header signal, and a second payload signal;

a power gating circuit coupled to the power amplifier, the power gating circuit including a power gate input and responsive to a power gating signal to remove power from the downlink transmitter during transmission of at least one of the first header

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signal and first payload signal in combination, and the second header signal and second payload signal in combination before amplification by the power amplifier;

The power gating module of claim 11, comprising:

a switch coupled to the power amplifier, the switch including a feed path selection input;

a first feed path coupled to the switch and characterized by a first hop location; and

a second feed path coupled to the switch and characterized by a second hop location.

21 (Original): The power gating module of claim 20, wherein the switch is a ferrite switch.

22 (Original): The power gating module of claim 20, wherein the power gating signal is active based in part on the feed path selection of the first hop location or the second hop location.

23-34 (Cancelled).

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